Welcome to STN International Web Page URLs for STN Seminar Schedule - N. America NEWS 1 "Ask CAS" for self-help around the clock NEWS CA/CAplus records now contain indexing from 1907 to the SEP 09 NEWS present INPADOC: Legal Status data reloaded DEC 08 NEWS SEP 29 DISSABS now available on STN NEWS OCT 10 PCTFULL: Two new display fields added NEWS <u>NEWS</u> OCT 21 BIOSIS file reloaded and enhanced OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced 8 NEWS MSDS-CCOHS file reloaded NOV 24 NEWS 9 DEC 08 CABA reloaded with left truncation NEWS 10 DEC 08 IMS file names changed NEWS 11 Experimental property data collected by CAS now available NEWS 12 DEC 09 in REGISTRY STN Entry Date available for display in REGISTRY and CA/CAplus NEWS 13 DEC 09 DGENE: Two new display fields added NEWS 14 DEC 17 DEC 18 BIOTECHNO no longer updated NEWS 15 CROPU no longer updated; subscriber discount no longer DEC 19 NEWS 16 available Additional INPI reactions and pre-1907 documents added to CAS DEC 22 NEWS 17 databases IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields DEC 22 NEWS 18 ABI-INFORM now available on STN NEWS 19 DEC 22 Source of Registration (SR) information in REGISTRY updated NEWS 20 JAN 27 and searchable A new search aid, the Company Name Thesaurus, available in JAN 27 NEWS 21 CA/CAplus DECEMBER 28 CURRENT WINDOWS VERSION IS V7.00, CURRENT NEWS EXPRESS MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003 STN Operating Hours Plus Help Desk Availability NEWS HOURS NEWS INTER General Internet Information NEWS LOGIN Welcome Banner and News Items Direct Dial and Telecommunication Network Access to STN NEWS PHONE CAS World Wide Web Site (general information) NEWS WWW Enter NEWS followed by the item number or name to see news on that specific topic. All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties. \* \* \* \* \* \* \* \* \* \* \* \* \* \* STN Columbus FILE 'HOME' ENTERED AT 12:03:30 ON 03 FEB 2004 => file medline SINCE FILE TOTAL COST IN U.S. DOLLARS

FILE LAST UPDATED: 31 JAN 2004 (20040131/UP). FILE COVERS 1958 TO DATE.

SESSION 0.21

ENTRY

0.21

FILE 'MEDLINE' ENTERED AT 12:03:37 ON 03 FEB 2004

FULL ESTIMATED COST

On December 14, 2003, the 2004 MeSH terms were loaded. See <a href="https://example.com/HELP RLOAD">HELP RLOAD</a> for details.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2004 vocabulary. See http://www.nlm.nih.gov/mesh/ and http:\\www.nih.gov/pubs/yechbull/nd03/nd03\_mesh.html for a description on changes.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s tsien?/au and pires

496 TSIEN?/AU

23 PIRES

L1 0 TSIEN?/AU AND PIRES

=> s tsien?/au and nature/jt

496 TSIEN?/AU

56255 NATURE/JT

(NATURE/JT)

L2 52 TSIEN?/AU AND NATURE/JT

 $\Rightarrow$  s 12 and 392/so

9008 392/SO

L3 2 L2 AND 392/SO

=> d 1-2 ti

L3 ANSWER 1 OF 2 MEDLINE on STN

## Citing References

Cell-permeant caged InsP3 ester shows that Ca2+ spike frequency can optimize gene expression.

L3 ANSWER 2 OF 2 MEDLINE on STN

## Citing ( References

TI Translocation of calmodulin to the nucleus supports CREB phosphorylation in hippocampal neurons.

## => d 2 bib

L3 ANSWER 2 OF 2 MEDLINE on STN

## Full 'Citing ' Text References

AN 1998175722 MEDLINE

DN 98175722 PubMed ID: 9515967

- TI Translocation of calmodulin to the nucleus supports CREB phosphorylation in hippocampal neurons.
- AU Deisseroth K; Heist E K; Tsien R W
- CS Department of Molecular and Cellular Physiology, Beckman Center for Molecular and Genetic Medicine, Stanford University School of Medicine, California 94305-5426, USA.
- SO NATURE, (1998 Mar 12) 392 (6672) 198-202. Journal code: 0410462. ISSN: 0028-0836.
- CY ENGLAND: United Kingdom
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English

FS Priority Journals

EM 199803

ED Entered STN: 19980407

Last Updated on STN: 19980407 Entered Medline: 19980326

=> d 2 ab

L3 ANSWER 2 OF 2 MEDLINE on STN

Citing References

Activation of the transcription factor CREB is thought to be important in the formation of long-term memory in several animal species. The phosphorylation of a serine residue at position 133 of CREB is critical for activation of CREB. This phosphorylation is rapid when driven by brief synaptic activity in hippocampal neurons. It is initiated by a highly local, rise in calcium ion concentrations near the cell membrane, but culminates in the activation of a specific calmodulin-dependent kinase known as CaMK IV, which is constitutively present in the neuronal nucleus. It is unclear how the signal is conveyed from the synapse to the nucleus. We show here that brief bursts of activity cause a swift (approximately 1 min) translocation of calmodulin from the cytoplasm to the nucleus, and that this translocation is important for the rapid phosphorylation of CREB. Certain Ca2+ entry systems (L-type Ca2+ channels and NMDA receptors) are able to cause mobilization of calmodulin, whereas others (N- and P/Q-type Ca2+ channels) are not. This translocation of calmodulin provides a form of cellular communication that combines the specificity of local Ca2+ signalling with the ability to produce action at a distance.

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